

## ABSTRACT

The present invention relates to a coated optical fiber comprising a glass optical fiber with a single protective coating or a combination of an inner and an  
5 outer primary coating applied thereon and optionally with a colored coating subsequently applied thereon wherein the inner primary coating or at least a portion of the single coating is prepared from a radiation curable composition which when cured as a capillary  
10 film with a 100W medium pressure mercury lamp has a percentage reacted acrylate unsaturation of at least about 54% after exposure to a dose of about 4.4 mJ/cm<sup>2</sup> or wherein the outer primary coating is prepared from a radiation curable composition which when cured as a  
15 capillary film with a 100W medium pressure mercury lamp has a percentage reacted acrylate unsaturation of at least about 56% after exposure to a dose of about 4.4 mJ/cm<sup>2</sup>. The invention further relates to a radiation curable composition having a high cure speed.